

Fig. 1

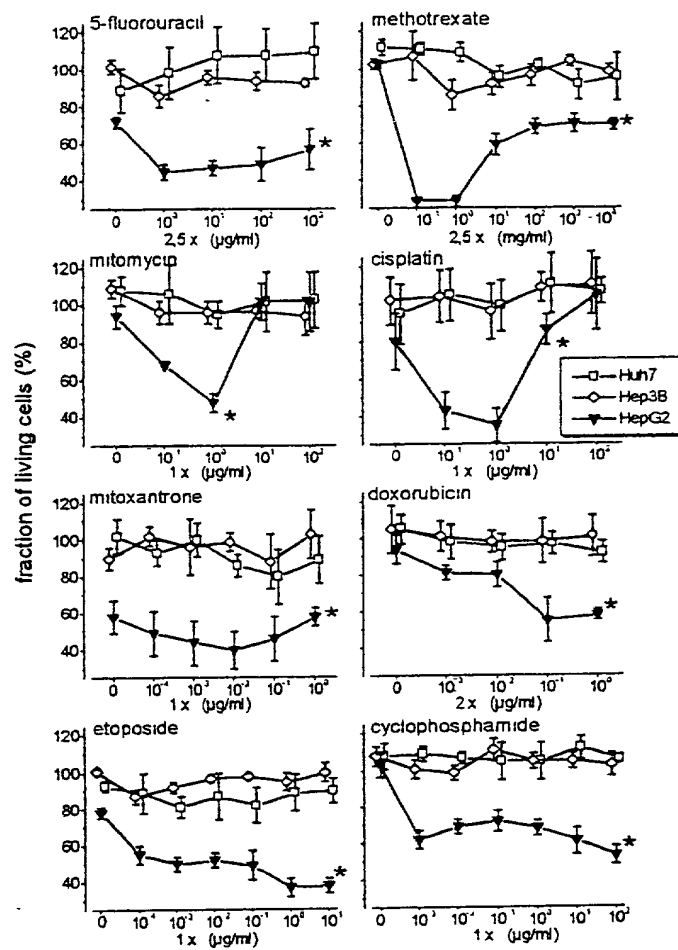


Fig. 2

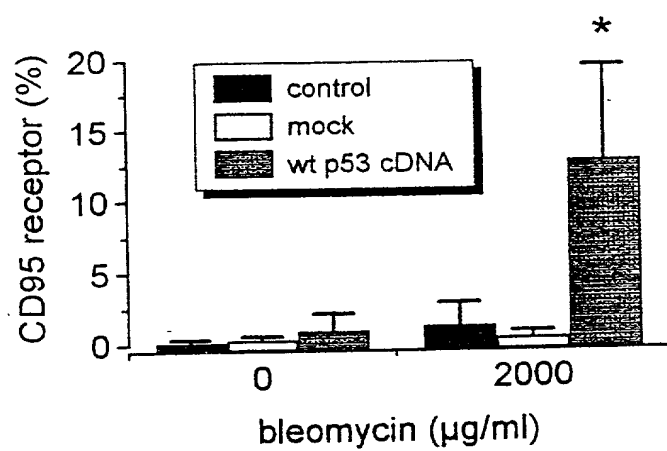


Fig. 3

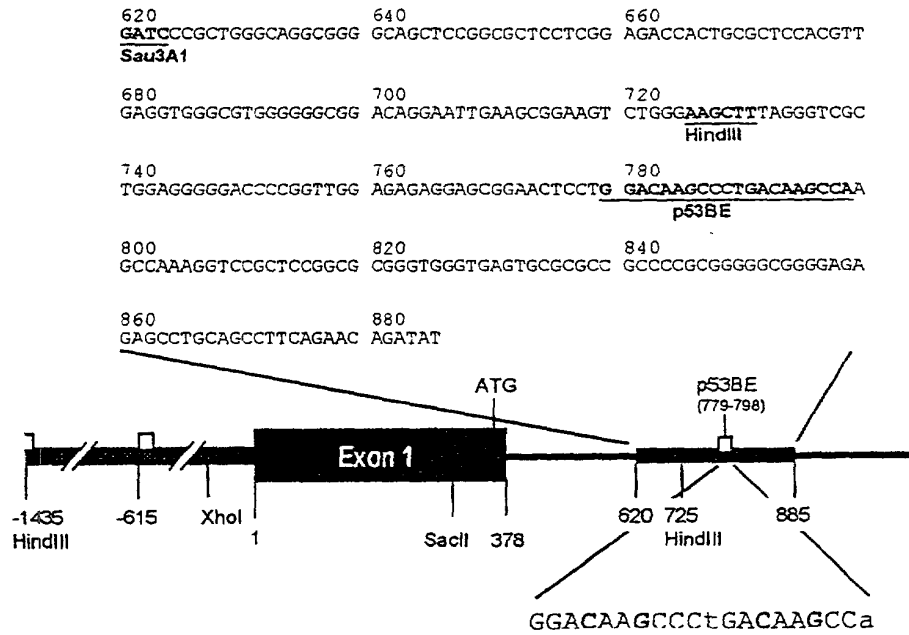


Fig. 4

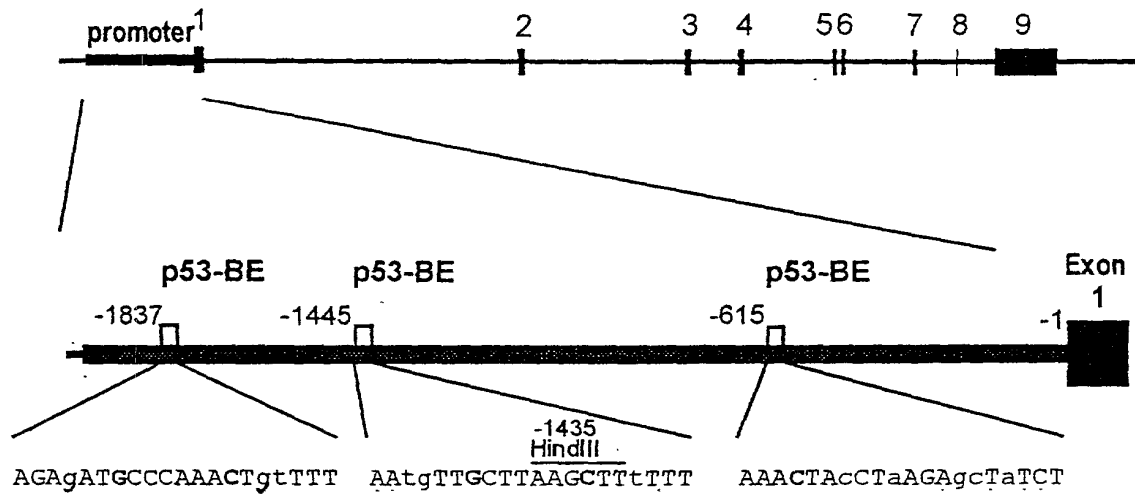


Fig. 5

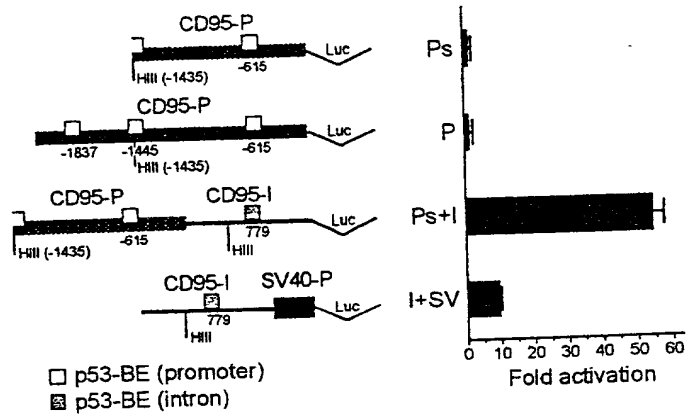


Fig. 6

1 GATCCCGCTGGGCAGGCGGGGAGCTCCGGCGCTCCTCGGAGACCACTGCGCTCCACGTT 60  
 CTAGGGCGACCCGTCCGCCCCGTGAGGCCGCGAGGAGCCTCTGGTGACGCGAGGTGCAA  
 61 GAGGTGGGCGTGGGGGGCGGACAGGAATTGAAGCGGAAGTCTGGGAAGCTTTAGGGTCGC 120  
 CTCCACCCGCACCCCCCGCCTGTCCTTAACCTTCGCCTTCAGACCCTTCGAAATCCCAGCG  
 <---- 4.P53-BE ---->  
 (intron)  
 121 TGGAGGGGGACCCCGGTTGGAGAGAGGAGCGGAACCTCCTGGACAAGCCCTGACAAGCCAA 180  
 ACCTCCCCCTGGGGCCAACCTCTCTCCTCGCCTTGAGGACCTGTTGCGGACTGTTCCGGTT  
 181 GCCAAAGGTCCGCTCCGGCGCGGGTGGGTGAGTGCGCGCCGCCCCGCGGGGGCGGGGAGA 240  
 CGGTTTCCAGGCGAGGCCGCGCCACCCACTCACGCGCGGCGGGGCGCCCCGCCCCCTCT  
 241 GAGCCTACAGCCTTCAGAACACATATTGCTCATTTTCTGGCAGTTCTCAGACGTAGGAAA 300  
 CTCGGATGTCGGAAGTCTTGTGTATAACGAGTAAAAGACCGTCAAGAGTCTGCATCCTTT  
 301 TAAGTCAGCACCGAAGCAGTGGTTAAGCCGGAGGGCTCGGAAGAACGGCACCTTTTCTTT 360  
 ATTCAGTCGTGGCTTCGTACCAATTCGGCCTCCCGAGCCTTCTTGCCGTGGAAGAAA  
 361 CTCGAAAAAGTTATATGGGGGCTGAATGAGCTTCTGGAGGCTTGTTTACCGTTTTTTATT 420  
 GAGCTTTTTCAATATACCCCCGACTTACTCGAAGACCTCCGAACAAATGGCAAAAAATAA  
 421 GTCACACAGAAAAGGAAACTGCCTTGTCTCCCTTCCGGGAATTCTCTCTTTAAGACTGTA 480  
 CAGTGTGTCTTTTCCTTTGACGGAACAGAGGGAAGGCCCTTAAGAGAGAAATTCTGACAT  
 481 AGTCGCTGCCTGAGTGGTTTCATTTTGTGTTTTCTGCCCCTTCTCTTTCTTCTTTTG 540  
 TCAGCGACGGACTACCAAAGTAAACAAAACAAAAAGACGGGAAGAGAAAGAAGAAAAC  
 541 CCCTTTCTTAGCTTGCACCTCCCATGGTGATTCTGCTTGGTCTCCTGCTGGGGTTGGTGG 600  
 GGGAAAGAATCGAACGTGAGGGTACCACTAAAGACGAACCAGAGGACGACCCCAACCACC  
 601 TACTCGTTCCCAACCGCACAGAACCCGGCGCCTATTATTGGCCAAGAACTTGAGCAGCCT 660  
 ATGAGCAAGGGTGGCGTGTCTTGGGCCGCGGATAATAACCGTTCTTTGAACTCGTCGGA  
 661 GTTTTGAAAAGTCCCTCGCTCAGAAATGCCAGCTTGAGATGGCTAATCAAAGAGACGTG 720  
 CAAACTTTTCAGGGAGCGAGTCTTTACGGTGAACGTCTACCGATTAGTTTCTCTGCAC

2<sup>nd</sup> half of the  
**2.p53-BE**  
(promoter)

448 **AGCTTTTTTGGCTACATTTTTTTATTGTAAAG** 480  
**TCGAAAAAACCGATGTAAAAAATAAACATTTT**

481 TAAGTTTAATAATCACTCATCTCACTGGGCTATAATGATAAGTATTAAGTAAGGAAGATC 540  
 ATTCAAATTATTAGTGAGTAGAGTGACCCGATATTACTATTTCATAATTCATTCCCTTCTAG

541 CACATATGTGAGTTGCTGGCTTATAATTCACACTCAAGAGATACTGATTTTGTCAATTGT 600  
 GTGTATACACTCAACGACCGAATATTAAGTGTGAGTTCTCTATGACTAAAACAGTTAACA

601 CCTTTCCCTTTTTTCTCTCTTCCCTCCTTCCATTCTTCTTCCCTTACCTCTCCTTTT 660  
 GGAAAGGGGAAAAAAGAGAGAAGGGGAGGAAGGTAAGGAAGAAGGGAATGGAGAGGAAAG

661 CTTCCCTCACACCCCTTTTCTCTCTTCTTTTACATTTTTTTATTAAATGAACCTTTT 720  
 GAAGGGAGTGTGGGGAAAAGGAAGGAAGAAAAATGTAAAAAATAAATTTACTTGAAAAG

721 ATTTTGGAAATAGTTTTAGGATTTCAAAAAATTGCAGAGATAATACAGAGAATGCCATA 780  
 TAAACCTTATCAAATCCTAAAGTTTTTTAAACGTCTCTATTATGTCTCTTACGGGTAT

781 TACCATCCTCCTTATCCCACTTCTTTTTGTGTCTATTAGATGCTCAGAGTGTGTGCACAA 840  
 ATGGTAGGAGGAATAGGGTGAAGAAAAACACAGATAATCTACGAGTCTCACACACGTGTT

841 GGCTGGCACGCCCAGGGTCTTCTCATGGCACTAACAGTCTACTGAAAGGTGGAACAGAG 900  
 CCGACCGTGCGGGTCCCAGAAGGAGTACCGTGATTGTCAGATGACTTTCCACCTTGTCTC

901 ACAAGCCTATCAACACCTACAAGACTGGTGGTAAGTGCAGTGACAGATGCAAAACACAGG 960  
 TGTTCGGATAGTTGTGGATGTTCTGACCACCATTACGTCAGTGTCTACGTTTTGTGTCC

991 GTGATGGAAAGCCCTCAGGAGGGTAACCTAACCTAGATTTGAGGGCCCAAACAGGCTCCA 1020  
 CACTACCTTTTCGGGAGTCTCCCATTTGGATTGGATCTAAACTCCCGGGTTTGTCCGAGGT

1021 GAAGAAAATGTCAACTGAGAGGAAGCCTGAAGGATGAACAGTGGGCTAAGCAAAGGGTTA 1080  
 CTTCTTTTACAGTTGACTCTCCTTCGGACTTCTACTTGTACCCCGATTTCGTTTCCCAAT



Fig. 8 (cont'd I)

1081 TTAATGTGTTATTAATGGGTTGAATCTAATTGGGAAGGGAGAGAGGTTGCAGAGTGAGGT  
 -----+-----+-----+-----+-----+-----+-----+-----+ 1140  
 AATTACACAATAATTACCCAACCTTAGATTAAACCTTCCCTCTCTCCAACGTCTCACTCCA  
  
 GCAGAGCTTGGTGGACGATGCCAAAGGAATACTGAAACCTTTAGTGTGTCCAGTCTGGAA  
 1141 -----+-----+-----+-----+-----+-----+-----+ 1200  
 CGTCTCGAACCACCTGCTACGGTTTCTTATGACTTTGGAAATCACACAGGTCAGACCTT  
  
 CTGCATCCAAATTCAGGTTCAAGTAATGATGTCATTATCCAAACATACCTTCTGTAAAATT  
 1201 -----+-----+-----+-----+-----+-----+-----+ 1260  
 GACGTAGGTTTAAAGTCCAAGTCATTACTACAGTAATAGGTTTGTATGGAAGACATTTTAA  
  
 <--- 3.p53-BE --->  
 (promoter)  
  
 CATGCTAAACTACCTAAGAGCTATCTACCGTTCCAAAGCAATAGTGACTTTGAACAGTGT  
 1261 -----+-----+-----+-----+-----+-----+-----+ 1320  
 GTACGATTTGATGGATTCTCGATAGATGGCAAGGTTTCGTTATCACTGAAACTTGTCACA  
  
 TCACCAGAGCACGAAAGAATTACAAGATTTTTTTTTTAAAGAAAATTGGCCAGGAAATAAT  
 1321 -----+-----+-----+-----+-----+-----+-----+ 1380  
 AGTGGTCTCGTGCTTTCTTAATGTTCTAAAAAAAATTTCTTTTAACCGGTCCTTTATTA  
  
 GAGTAACGAAGGACAGGAAGTAATTGTGAATGTTAATATAGCTGGGGCTATGCGATTG  
 1381 -----+-----+-----+-----+-----+-----+-----+ 1440  
 CTCATTGCTTCCTGTCCTTCATTAAACACTTACAAATTATATCGACCCCGATACGCTAAAC  
  
 GCTTAAGTTGTTAGCTTTGTTTTCTCTTGAGAAATAAAAACTAAGGGGCCCTCCCTTTT  
 1441 -----+-----+-----+-----+-----+-----+-----+ 1500  
 CGAATTCAACAATCGAAACAAAAGGAGAACTCTTTATTTTGAATCCCCGGGAGGAAAA  
  
 CAGAGCCCTATGGCGCAACATCTGTACTTTTTCATATGGTTAACTGTCCATTCCAGGAAC  
 1501 -----+-----+-----+-----+-----+-----+-----+ 1560  
 GTCTCGGGATACCGGTTGTAGACATGAAAAAGTATACCAATTGACAGGTAAGGTCCTTG  
  
 GTCTGTGAGCCTCTCATGTTGCAGCCACAACATGGACAGCCCAGTCAAATGCCCCGCAAG  
 1561 -----+-----+-----+-----+-----+-----+-----+ 1620  
 CAGACACTCGGAGAGTACAACGTCGGTGTGTACCTGTCCGGTCAGTTTACGGGGCGTTC  
  
 TCTTTCTCTGAGTGAAGTCCAGCAATTAGCCAAGGCTCCTGTACCCAGGCAGGACCTCTGC  
 1621 -----+-----+-----+-----+-----+-----+-----+ 1680  
 AGAAAGAGACTCACTGAGGTCGTTAATCGGTTCCGAGGACATGGGTCCGTCTGGAGACG  
  
 GCTCTGAGCTCCATTCTCCTTCAAGACCTCCCCAACTTCCCAGGTTGAACTACAGCAGAA  
 1681 -----+-----+-----+-----+-----+-----+-----+ 1740  
 CGAGACTCGAGGTAAGAGGAAGTTCTGGAGGGGTTGAAGGGTCCAACCTTGATGTCGTCTT  
  
 GCCTTTAGAAAGGGCAGGAGGCCGGCTCTCGAGGTCCTCACCTGAAGTGAGCATGCCAGC  
 1741 -----+-----+-----+-----+-----+-----+-----+ 1800  
 CGGAAATCTTTCCCGTCTCCGGCCGAGAGCTCCAGGAGTGGACTTCACTCGTACGGTCG  
  
 CACTGCAGGAACGCCCCGGGACAGGAATGCCATTGTTGCAACGAACCTGACTCCTTCC  
 1801 -----+-----+-----+-----+-----+-----+-----+ 1860  
 GTGACGTCCTTGCGGGGCCCTGTCTTACGGGTAAACACGTTGCTTGGGACTGAGGAAGG  
  
 TCACCCCTGACTTCTCCCCCTCCCTACCCGCGCGCAGGCCAAGTTGCTGAATCAATGGAGC  
 1861 -----+-----+-----+-----+-----+-----+-----+ 1920  
 AGTGGGACTGAAGAGGGGGAGGGATGGGCGCGCTCCGGTTCAACGACTTAGTTACCTCG

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Fig. 8 (cont'd II)

1921 CCTCCCCAACCCGGGCGTTCCCCAGCGAGGCTTCCTTCCCATCCTCCTGACCACCGGGGC  
 -----+-----+-----+-----+-----+ 1980  
 GGAGGGGTTGGGCCCCGAAGGGGTCGCTCCGAAGGAAGGTTAGGAGGACTGGTGGCCCCG  
  
 1981 TTTTCGTGAGCTCGTCTCTGATCTCGCGCAAGAGTGACACACAGGTGTTCAAAGACGCTT  
 -----+-----+-----+-----+-----+ 2040  
 AAAAGCACTCGAGCAGAGACTAGAGCGCGTTCTCACTGTGTGTCCACAAGTTTCTGCGAA  
  
 2041 CTGGGGAGTGAGGGAAGCGGTTTACGAGTGACTTGGCTGGAGCCTCAGGGGCGGGCACTG  
 -----+-----+-----+-----+-----+ 2100  
 GACCCCTCACTCCCTTCGCCAAATGCTCACTGAACCGACCTCGGAGTCCCCGCCCGTGAC  
  
 2101 GCACGGAACACACCCTGAGGCCAGCCCTGGCTGCCAGGCGGAGCTGCCTCTTCTCCCGC  
 -----+-----+-----+-----+-----+ 2160  
 CGTGCCTTGTGTGGGACTCCGGTCGGGACCGACGGGTCCGCCTCGACGGAGAAGAGGGCG  
  
 2161 GGACATGTACAGAGCTCGAGAAGTACTAGTGGCCACGTGGGCCGTGCACCTTAAGCTTTA  
 -----+-----+-----+-----+-----+ 2220  
 CCTGTACATGTCTCGAGCTCTTCATGATCACCGGTGCACCCGGCACGTGGAATTCGAAAT  
  
 ←---4.p53-BE-  
 (intron)  
  
 2221 GGGTCGCTGGAGGGGGACCCCGGTTGGAGAGAGGAGCGGAACCTCTGGACAAGCCCTGAC  
 -----+-----+-----+-----+-----+ 2280  
 CCCAGCGACCTCCCCCTGGGGCCAACCTCTCTCCTCGCCTTGAGGACCTGTTCCGGGACTG  
  
 -----→  
  
 2281 AAGCCAAGCCAAAGGTCCGCTCCGGCGCGGGTGGGTGAGTGCGCGCCGCCCGCGGGGGC  
 -----+-----+-----+-----+-----+ 2340  
 TTCGGTTCGGTTTCCAGGCGAGGCCGCGCCCACTCAGCGCGGCGGGGCGCCCCCG  
  
 2341 GGGGAGAGAGCCTGCAGCCTTCAGAACAGATATTGCTCATTTTCTGGCAGTTCTCAGACG  
 -----+-----+-----+-----+-----+ 2400  
 CCCCCTCTCTCGGACGTCGGAAGTCTTGTCTATAACGAGTAAAAGACCGTCAAGAGTCTGC  
  
 2401 TAGGAAATAAGTCAGCACCGAAGCAGTGGTTAAGCCGGAGGGCTCGGAAGAACGGCACCT  
 -----+-----+-----+-----+-----+ 2460  
 ATCCTTTATTTCAGTCGTGGCTTCGTCAACCAATTCGGCCTCCCGAGCCTTCTTGCCGTGGA  
  
 2461 TTTCTTTCTCGAAAAAGTTATATGGGGGCTGAATGAGCTTCTGGAGGCTTGTTTACCGTT  
 -----+-----+-----+-----+-----+ 2520  
 AAAGAAAGAGCTTTTTCAATATACCCCCGACTTACTCGAAGACCTCCGAACAAATGGCAA  
  
 2521 TTTTATTGTACACAGAAAAGGAAACTGCCTTGTCTCCCTTCCGGGAATTCTCTCTTTAA  
 -----+-----+-----+-----+-----+ 2580  
 AAAATAACAGTGTGTCTTTTCCTTTGACGGAACAGAGGGAAGGCCCTTAAGAGAGAAATT  
  
 2581 GACTGTAAGTCGCTGCCTGAGTGGTTTCAATTTGTTTTGTTTTCTGCCCTTCTCTTTCT  
 -----+-----+-----+-----+-----+ 2640  
 CTGACATTACGCGACGGACTCACCAAAGTAAACAAAACAAAAGACGGGAAGAGAAAGA  
  
 2641 TCTTTTGCCCTTTCTTAGCTTGCACTCCCATGGTGATTCTGCTTGGTCTCCTGCTGGGG  
 -----+-----+-----+-----+-----+ 2700  
 AGAAAACGGGAAGAAGATCGAACGTGAGGGTACCCTAAAGACGAACCAGAGGACGACCCC

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Fig. 8 (cont'd III)

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      TTGGTGGTACTCGTTCCCAACCGCACAGAACCCGGCGCCTATTATTGGCCAAGAACTTGA
2701 -----+-----+-----+-----+-----+-----+ 2760
      AACCACCATGAGCAAGGGTGGCGTGTCTTGGGCCGCGGATAATAACCGGTTCTTTGAACT

      GCAGCCTGTTTTGAAAAGTCCCTCGCTCAGAAATGCCAGCTTGCAGATGGCTAATCAAAG
2761 -----+-----+-----+-----+-----+-----+ 2820
      CGTCGGACAAAACTTTTCAGGGAGCGAGTCTTTACGGTCGAACGTCTACCGATTAGTTTC

      AGACGTG
2821 ----- 2827
      TCTGCAC
```

U. S. G. O. - 10-10-60

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Fig. 9

<---- 1.p53-BE --

1 TGAGGACTCTCAGGAATATGCTGGTAAAATAAAAATAACCTTTAGAGATGCCCAAACCTGT 60  
ACTCCTGAGAGTCCTTATACGACCATTTTATTTTATTGGAAATCTCTACGGGTTTGACA  
-->  
61 TTCCCCAGAACACCAGCATTCAATAGGTGTTCAATAGATTCTTCAAAGGATTCCA 120  
AAAGGGGTCTTGTGGTCGTAAGTAATCCACAAGTAAGTTATCTAAGAAGTTTCCTAAGGT  
121 AAGGCAAAGAAGTTTGGGGAACAGTATATATAATTACCCAACCTTTGACATTAGCATAC 180  
TTCCGTTTCTTCAAACCCCTTGTATATATATTAATGGGTGGGAAACTGTAATCGTATG  
181 TAAGGGCCCTGAGAAGTTTGGGATTAAGAAAGTTTCAAATTAAAGTAACCCAGAATTTT 240  
ATTCCCGGGACTCTTCAAACCTAATTCTTTCAAAGTTAATTTCAATGGGTCTTAAAA  
241 CTAAGATTATTTGACCATGAAACATATGTCTCCCCACAAAGCACATATTCCTATCTCCTT 300  
GATTCTAATAAACTGGTACTTTGTATACAGAGGGGTGTTTCGTGTATAAGGATAGAGGAA  
301 GAACTTGAGGATAATTAGACGTACGTGGGTAGAGGGTAGGGGAAGGGGTATGGCATAGA 360  
CTTGAACCTCTATTAATCTGCATGCACCCATCTCCCATCCCTTCCCCCATACCGTATCT  
361 AAGAGCAGGACCTTGGGAGCAAGAATATCTAAGTTTAATTCCTGACTCTGCTATTTATTA 420  
TTCTCGTCCTGGAACCCTCGTTCTTATAGATTCAAATTAAGGACTGAGACGATAAATAAT

<---- 2.p53-BE ---->

421 ACTAACCATCTTTGCCAATGTTGCTTAAGCTTTTTTGGCTACATTTTTTTATTTGTAAAG 480  
TGATTGGTAGAAACGGTTACAACGAATTCGAAAAAACCGATGTAAAAAATAAACATTTT  
481 TAAGTTTAATAATCACTCATCTCACTGGGCTATAATGATAAGTATTAAGTAAGGAAGATC 540  
ATTCAAATTATTAGTGAGTAGAGTGACCCGATATTACTATTCAATTCATTCTCTTAG  
541 CACATATGTGAGTTGCTGGCTTATAATTCACACTCAAGAGATACTGATTTTGTCAATTGT 600  
GTGTATACACTCAACGACCGAATATTAAGTGTGAGTTCTCTATGACTAAAACAGTTAACA  
601 CCTTCCCCTTTTTTCTCTCTCTCCCTCCTTCCATTCTCTTCCCTTACCTCTCCTTTC 660  
GGAAAGGGGAAAAAAGAGAGAAGGGAGGAAGGTAAGGAAGAAGGGAATGGAGAGGAAAG

102110 102110 102110

Fig. 9 (cont'd I)

CTTCCCTCACACCCCTTTTCTCCTTCTTTTACATTTTTTATTAAATGAACCTTTTC  
661 -----+-----+-----+-----+-----+-----+-----+ 720  
GAAGGGAGTGTGGGGAAAAGGAAGGAAGAAAAATGTAAAAAATAAATTTACTTGAAAAG  
  
ATTTTGGAAATAGTTTTAGGATTTCAAAAAATTTGCAGAGATAATACAGAGAATGCCATA  
721 -----+-----+-----+-----+-----+-----+-----+ 780  
TAAACCTTATCAAAATCCTAAAGTTTTTTAAACGTCTCTATTATGTCTCTTACGGGTAT  
  
TACCATCCTCCTTATCCCACTTCTTTTTGTGTCTATTAGATGCTCAGAGTGTGTGCACAA  
781 -----+-----+-----+-----+-----+-----+-----+ 840  
ATGGTAGGAGGAATAGGGTGAAGAAAAACACAGATAATCTACGAGTCTCACACACGTGTT  
  
GGCTGGCAGGCCAGGGTCTTCTCATGGCACTAACAGTCTACTGAAAGGTGGAACAGAG  
841 -----+-----+-----+-----+-----+-----+-----+ 900  
CCGACCGTGCGGTCCCGAAGGAGTACCGTGATTGTCTAGATGACTTTCCACCTTGTCTC  
  
ACAAGCCTATCAACACCTACAAGACTGGTGGTAAAGTGCAGTGACAGATGCAAAACACAGG  
901 -----+-----+-----+-----+-----+-----+-----+ 960  
TGTTTCGGATAGTTGTGGATGTTCTGACCACCATTACAGTCACTGTCTACGTTTTGTGTCC  
  
GTGATGGAAGCCCTCAGGAGGGTAACCTAACCTAGATTTGAGGGCCCAAACAGGCTCCA  
991 -----+-----+-----+-----+-----+-----+-----+ 1020  
CACTACCTTTCCGGAGTCCTCCCATTTGGATTGGATCTAAACTCCCGGGTTTGTCCGAGGT  
  
GAAGAAAATGTCAACTGAGAGGAAGCCTGAAGGATGAACAGTGGGCTAAGCAAAGGGTTA  
1021 -----+-----+-----+-----+-----+-----+-----+ 1080  
CTTCTTTTACAGTTGACTCTCTTCGGACTTCTACTTGTACCCGATTTCGTTTCCCAAT  
  
TTAATGTGTTATTAATGGGTTGAATCTAATTGGGAAGGGAGAGAGGTTGCAGAGTGAGGT  
1081 -----+-----+-----+-----+-----+-----+-----+ 1140  
AATTACACAATAATTACCCAACCTAGATTAAACCTTCCCTCTCTCCAACGTCTCACTCCA  
  
GCAGAGCTTGGTGGACGATGCCAAAGGAATACTGAAACCTTTAGTGTGTCCAGTCTGGAA  
1141 -----+-----+-----+-----+-----+-----+-----+ 1200  
CGTCTCGAACCACCTGCTACGGTTTCTTATGACTTTGGAAATCACACAGGTGAGACCTT  
  
CTGCATCCAAATTCAGGTTCAAGTAATGATGTCAATTATCCAAACATACCTTCTGTAAAT  
1201 -----+-----+-----+-----+-----+-----+-----+ 1260  
GACGTAGGTTTTAAGTCCAAGTCATTACTACAGTAATAGGTTTGTATGGAAGACATTTTAA  
  
<---- 3.p53-BE ---->  
  
CATGCTAAACTACCTAAGAGCTATCTACCGTTCCAAAGCAATAGTGACTTTGAACAGTGT  
1261 -----+-----+-----+-----+-----+-----+-----+ 1320  
GTACGATTTGATGGATTCTCGATAGATGGCAAGGTTTCGTTATCACTGAAACTTGTCA  
  
TCACCAGAGCACGAAAGAATTACAAGATTTTTTTTTTAAAGAAAATTTGGCCAGGAAATAAT  
1321 -----+-----+-----+-----+-----+-----+-----+ 1380  
AGTGGTCTCGTGCTTTCTTAATGTCTAAAAAAAATTTCTTTTAAACCGGTCTTTATTA  
  
GAGTAACGAAGGACAGGAAGTAATTGTGAATGTTTAAATATAGCTGGGGCTATGCGATTTG  
1381 -----+-----+-----+-----+-----+-----+-----+ 1440  
CTCATTTGCTTCTGTCTTCATTAACACTTACAAATTATATCGACCCCGATACGCTAAAC  
  
GCTTAAGTTGTTAGCTTTGTTTTCTCTTGAGAAATAAAACTAAGGGGGCCCTCCCTTTT  
1441 -----+-----+-----+-----+-----+-----+-----+ 1500  
CGAATTCAACAATCGAAACAAAAGGAGAACTCTTTATTTTTTGATTCCCCGGGAGGGAAAA  
  
CAGAGCCCTATGGCGCAACATCTGTACTTTTTTCATATGGTTAACTGTCCATTCAGGAAC  
1501 -----+-----+-----+-----+-----+-----+-----+ 1560  
GTCTCGGGATACCGCGTTGTAGACATGAAAAAGTATACCAATTGACAGGTAAAGGTCTTG

Fig. 9 (cont'd II)

1561 GTCTGTGAGCCTCTCATGTTGCAGCCACAACATGGACAGCCCAGTCAAATGCCCCGCAAG  
 -----+-----+-----+-----+-----+-----+-----+ 1620  
 CAGACACTCGGAGAGTACAACGTCGGTGTGTACCTGTCGGGTGAGTTTACGGGGCGTTC  
  
 1621 TCTTTCTCTGAGTGACTCCAGCAATTAGCCAAGGCTCCTGTACCCAGGCAGGACCTCTGC  
 -----+-----+-----+-----+-----+-----+-----+ 1680  
 AGAAAGAGACTCACTGAGGTGCTTAATCGGTTCCGAGGACATGGGTCCGTCCTGGAGACG  
  
 1681 GCTCTGAGCTCCATTCTCCTTCAAGACCTCCCCAACTTCCCAGGTTGAACTACAGCAGAA  
 -----+-----+-----+-----+-----+-----+-----+ 1740  
 CGAGACTCGAGGTAAGAGGAAGTTCTGGAGGGGTGAAGGGTCCAACCTGATGTCGTCTT  
  
 1741 GCCTTTAGAAAGGGCAGGAGGCCGGCTCTCGAGGTCTCACCTGAAGTGAGCATGCCAGC  
 -----+-----+-----+-----+-----+-----+-----+ 1800  
 CGGAAATCTTTCCCGTCTCCGGCCGAGAGCTCCAGGAGTGGACTTCACTCGTACGGTGC  
  
 1801 CACTGCAGGAACGCCCCGGGACAGGAATGCCCATTTGTGCAACGAACCTGACTCCTTCC  
 -----+-----+-----+-----+-----+-----+-----+ 1860  
 GTGACGTCCTTGCGGGGCCCTGTCTTACGGGTAAACACGTTGCTTGGGACTGAGGAAGG  
  
 1861 TCACCTTGACTTCTCCCCCTCCCTACCCGCGCGCAGGCCAAGTTGCTGAATCAATGGAGC  
 -----+-----+-----+-----+-----+-----+-----+ 1920  
 AGTGGGACTGAAGAGGGGGAGGGATGGGCGCGCGTCCGGTTCAACGACTTAGTTACCTCG  
  
 1921 CCTCCCCAACCCGGGCGTTCCCCAGCGAGGCTTCTTCCCATCTCTGACCACCGGGGC  
 -----+-----+-----+-----+-----+-----+-----+ 1980  
 GGAGGGGTTGGGCCCCGAAGGGGTGCTCCGAAGGAAGGGTAGGAGGACTGGTGGCCCCG  
  
 1981 TTTTCGTGAGCTCGTCTCTGATCTCGCGCAAGAGTGACACACAGGTGTTCAAAGACGCTT  
 -----+-----+-----+-----+-----+-----+-----+ 2040  
 AAAAGCACTCGAGCAGAGACTAGAGCGGTTCTCACTGTGTGTCCACAAGTTTCTGCGAA  
  
 2041 CTGGGGAGTGAGGGAAGCGGTTTACGAGTGACTTGGCTGGAGCCTCAGGGGCGGGCACTG  
 -----+-----+-----+-----+-----+-----+-----+ 2100  
 GACCCCTCACTCCCTTCGCCAAATGCTCACTGAACCGACCTCGGAGTCCCCGCCCGTGAC  
  
 2101 GCACGGAACACACCCTGAGGCCAGCCCTGGCTGCCAGGCGGAGCTGCCTCTTCTCCCGC  
 -----+-----+-----+-----+-----+-----+-----+ 2160  
 CGTGCCTTGTGTGGGACTCCGGTCCGGACCGACGGTCCGCCTCGACGGAGAAGAGGGCG  
  
 2161 GGACATGTACAGAGCTCGAGAAGTACTAGTGGCCACGTGGGCCGTGCACCTTAAGCTTTA  
 -----+-----+-----+-----+-----+-----+-----+ 2220  
 CCTGTACATGTCTCGAGCTCTCATGATCACCAGTGCACCCGGCACGTGGAATTCGAAAT  
  
 <---- 4.p53-BE  
 (intron)  
  
 2221 GGGTCGCTGGAGGGGGACCCCGGTTGGAGAGAGGAGCGGAACCTCCTGGACAAGCCCTGAC  
 -----+-----+-----+-----+-----+-----+-----+ 2280  
 CCCAGCGACCTCCCCCTGGGGCCAACCTCTCTCCTCGCCTGAGGACCTGTTCCGGGACTG  
  
 ----->  
  
 2281 AAGCCAAGCCAAAGGTCCGCTCCGGCGCGGGTGGGTGAGTGCGCGCCGCCCCGCGGGGGC  
 -----+-----+-----+-----+-----+-----+-----+ 2340  
 TTCGGTTCGGTTTCCAGGCGAGGCCGCGCCCACTCACGCGCGGCGGGGCGCCCCG  
  
 2341 GGGGAGAGAGCCTGCAGCCTTCAGAACAGATATTGCTCAATTTCTGGCAGTTCTCAGACG  
 -----+-----+-----+-----+-----+-----+-----+ 2400  
 CCCCTCTCTCGGACGTCGGAAGTCTTGTCTATAACGAGTAAAAGACCGTCAAGAGTCTGC

```

2401 TAGGAAATAAGTCAGCACCCGAAGCAGTGGTTAAGCCGGAGGGCTCGGAAGAACGGCACCT
-----+-----+-----+-----+-----+-----+-----+ 2460
ATCCTTTATTTCAGTCGTGGCTTCGTACCAATTCGGCCTCCCGAGCCTTCTTGCCGTGGA

2461 TTTCTTTCTCGAAAAAGTTATATGGGGGCTGAATGAGCTTCTGGAGGCTTGTTTACCGTT
-----+-----+-----+-----+-----+-----+ 2520
AAAGAAAGAGCTTTTTCAATATACCCCCGACTTACTCGAAGACCTCCGAACAAATGGCAA

2521 TTTTATTGTCACACAGAAAAGGAAACTGCCTTGTCTCCCTTCCGGAATTCTCTCTTTAA
-----+-----+-----+-----+-----+-----+ 2580
AAAATAACAGTGTGTCTTTTCCTTTGACGGAACAGAGGGAAGGCCCTTAAGAGAGAAATT

2581 GACTGTAAGTCGCTGCCTGAGTGGTTTTCATTTTGTGTTTTCTGCCCTTCTCTTTCT
-----+-----+-----+-----+-----+-----+ 2640
CTGACATTTCAGCGACGGACTCACCAAGTAAACAAAAAGACGGGAAGAGAAAGA

2641 TCTTTTGCCCTTTCTTAGCTTGCACTCCCATGGTGATTTCTGCTTGGTCTCCTGCTGGGG
-----+-----+-----+-----+-----+-----+ 2700
AGAAAACGGGAAAGAATCGAACGTGAGGGTACCCTAAAGACGAACCAGAGGACGACCCC

2701 TTGGTGGTACTCGTTCCCACCGCACAGAACCCGGCGCCTATTATTGGCCAAGAACTTGA
-----+-----+-----+-----+-----+-----+ 2760
AACCACCATGAGCAAGGGTGGCGTGTCTTGGGCCGCGGATAATAACCGGTTCTTTGAACT

2761 GCAGCCTGTTTTGAAAAGTCCCTCGCTCAGAAATGCCAGCTTGCAGATGGCTAATCAAAG
-----+-----+-----+-----+-----+-----+ 2820
CGTCGGACAAAACTTTTCAGGGAGCGAGTCTTTACGGTCGAACGTCTACCGATTAGTTTC

2821 AGACGTG
----- 2827
TCTGCAC

```

TCCTTCTCTTTAA

Fig. 10

←---- 1.p53-BE ----  
(promoter)

```

1  TGAGGACTCTCAGGAATATGCTGGTAAATAAAAAATAACCTTTAGAGATGCCCAAACCTGT
  -----+-----+-----+-----+-----+-----+-----+
61 ACTCCTGAGAGTCCTTATACGACCATTTTATTTTATTGGAAATCTCTACGGGTTTGACA
  -----+-----+-----+-----+-----+-----+-----+
  -->

61 TTTCCCCAGAACACCAGCATTTCATTAGGTGTTTCATTCAATAGATTCTTCAAAGGATTCCA
  -----+-----+-----+-----+-----+-----+-----+
121 AAAGGGGTCTTGTGGTCTGAAGTAATCCACAAGTAAGTTATCTAAGAAGTTTCCTAAGGT
  -----+-----+-----+-----+-----+-----+-----+
121 AAGGCAAAGAAGTTTGGGGAACAGTATATATAATTACCCAACCTTTGACATTAGCATAC
  -----+-----+-----+-----+-----+-----+-----+
180 TTCCGTTTCTTCAAACCCCTTGTCATATATATTAATGGGTGGGAACTGTAATCGTATG
  -----+-----+-----+-----+-----+-----+-----+
181 TAAGGGCCCTGAGAAGTTTGGATTAAAGAAAGTTTCAAATTAAAGTAACCCAGAATTTT
  -----+-----+-----+-----+-----+-----+-----+
240 ATTCCCGGACTCTTCAAACCTAATTCTTTCAAAGTTTAATTTTCATTGGGTCTTAAAA
  -----+-----+-----+-----+-----+-----+-----+
241 CTAAGATTATTTGACCATGAAACATATGTCTCCCCACAAAGCACATATTCCTATCTCCTT
  -----+-----+-----+-----+-----+-----+-----+
300 GATTCTAATAAACTGGTACTTTGTATACAGAGGGGTGTTTCGTGTATAAGGATAGAGGAA
  -----+-----+-----+-----+-----+-----+-----+
301 GAACCTGAGGATAATTAGACGTACGTGGGTAGAGGGTAGGGGAAGGGGTATGGCATAGA
  -----+-----+-----+-----+-----+-----+-----+
360 CTTGAACTCCTATTAATCTGCATGCACCCATCTCCCATCCCCTTCCCCATACCGTATCT
  -----+-----+-----+-----+-----+-----+-----+
361 AAGAGCAGGACCTTGGGAGCAAGAATATCTAAGTTTAATTCCTGACTCTGCTATTTATTA
  -----+-----+-----+-----+-----+-----+-----+
420 TTCTCGTCTTGGAACCTCGTTCTTATAGATTCAAATTAAGGACTGAGACGATAAATAAT
  -----+-----+-----+-----+-----+-----+-----+

```

←---- 2.p53-BE ---->  
(promoter)

```

421 ACTAACCATCTTTGCCAATGTTGCTTAAGCTTTTTTGGCTACATTTTTTTATTTGTAAAG
  -----+-----+-----+-----+-----+-----+-----+
480 TGATTGGTAGAAACGGTTACAACGAATTCGAAAAAACCGATGTAAAAAATAAACATTTT
  -----+-----+-----+-----+-----+-----+-----+
481 TAAGTTTAATAATCACTCATCTCACTGGGCTATAATGATAAGTATTAAGTAAGGAAGATC
  -----+-----+-----+-----+-----+-----+-----+
540 ATTCAAATTATTAGTGAGTAGAGTGACCCGATATTACTATTTCATAATTCATTCCTTCTAG
  -----+-----+-----+-----+-----+-----+-----+
541 CACATATGTGAGTTGCTGGCTTATAATTCACACTCAAGAGATACTGATTTTGTCAATTGT
  -----+-----+-----+-----+-----+-----+-----+
600 GTGTATACACTCAACGACCGAATATTAAGTGTGAGTTCTCTATGACTAAAACAGTTAACA
  -----+-----+-----+-----+-----+-----+-----+
601 CCTTCCCTTTTTTTCTCTCTTCCCTCCTTCCATTCTTCTTCCCTTACCTCTCCTTTT
  -----+-----+-----+-----+-----+-----+-----+
660 GGAAAGGGGAAAAAAGAGAGAAGGAGGAAGGTAAGGAAGAAGGGAATGGAGAGGAAAG
  -----+-----+-----+-----+-----+-----+-----+
661 CTTCCCTCACACCCCTTTTCCTTCTTCTTTTACATTTTTTTATTTAAATGAACTTTTC
  -----+-----+-----+-----+-----+-----+-----+
720 GAAGGGAGTGTGGGGAAAAGGAAGGAAGAAAAATGTAAAAAATAAATTTACTTGAAAAG
  -----+-----+-----+-----+-----+-----+-----+
721 ATTTTGAATAGTTTATAGATTTCAAAAAATTTGCAGAGATAATACAGAGAATGCCATA
  -----+-----+-----+-----+-----+-----+-----+
780 TAAAACCTTATCAAAATCCTAAAGTTTTTAAACGTCTCTATTATGTCTCTTACGGGTAT
  -----+-----+-----+-----+-----+-----+-----+

```



781 TACCATCCTCCTTATCCCACTTCTTTTTGTGTCTATTAGATGCTCAGAGTGTGTGCACAA 840  
-----+-----+-----+-----+-----+  
ATGGTAGGAGGAATAGGGTGAAGAAAAACACAGATAATCTACGAGTCTCACACACGTGTT  
GGCTGGCAGGCCAGGGTCTTCTCATGGCACTAACAGTCTACTGAAAGGTGGAACAGAG  
841 -----+-----+-----+-----+-----+ 900  
CCGACCGTGCGGGTCCCAGAAGGAGTACCGTGATTGTGAGATGACTTTCCACCTTGTCTC  
ACAAGCCTATCAACACCTACAAGACTGGTGGTAAGTGCAGTGACAGATGCAAAACACAGG  
901 -----+-----+-----+-----+-----+ 960  
TGTTCCGATAGTTGTGGATGTTCTGACCACCATTACGTCAGTGTCTACGTTTTGTGTCC  
GTGATGGAAAGCCCTCAGGAGGGTAACCTAACCTAGATTTGAGGGCCCAACAGGCTCCAG  
961 -----+-----+-----+-----+-----+ 1020  
CACTACCTTTCCGGAGTCTCCCATTTGGATTGGATCTAAACTCCCGGGTTGTCCGAGGTC  
AAGAAATGTCAACTGAGAGGAAGCCTGAAGGATGAACAGTGGGCTAAGCAAAGGGTTAT  
1021 -----+-----+-----+-----+-----+ 1080  
TTCTTTTACAGTTGACTCTCCTTCGGACTTCTTACTTGTACCCGATTCTGTTTCCCAATA  
TAATGTGTTATTAATGGGTTGAATCTAATTGGGAAGGGAGAGAGGTTGCAGAGTGAGGTG  
1081 -----+-----+-----+-----+-----+ 1140  
ATTACACAATAATTACCCAATTAGATTAACCCCTTCCCTCTCTCCAACGTCTCACTCCAC  
CAGAGCTTGGTGGACGATGCCAAAGGAATACTGAAACCTTTAGTGTGTCCAGTCTGGAAC  
1141 -----+-----+-----+-----+-----+ 1200  
GTCTCGAACCACCTGCTACGGTTTCCTTATGACTTTGGAAATCACACAGGTGAGACCTTG  
TGCATCCAAATTCAGGTTCACTAATGATGTCTATTATCCAAACATACCTTCTGTAAAATTC  
1201 -----+-----+-----+-----+-----+ 1260  
ACGTAGGTTTAAAGTCCAAGTCATTACTACAGTAATAGGTTTGTATGGAAGACATTTAAG  
  
<---- 3.p53-BE ---->  
(promoter)  
ATGCTAAACTACCTAAGAGCTATCTACCGTTCCAAAGCAATAGTGACTTTGAACAGTGTT  
1261 -----+-----+-----+-----+-----+ 1320  
TACGATTGATGGATTCTCGATAGATGGCAAGGTTTCGTTATCACTGAAACTTGTACAA  
CACCAGAGCACGAAAGAATTACAAGATTTTTTTTTTAAAGAAATTTGGCCAGGAAATAATG  
1321 -----+-----+-----+-----+-----+ 1380  
GTGGTCTCGTGCTTTCTTAATGTTCTAAAAAAAATTTCTTTTAACCGGTCCTTTATTAC  
AGTAACGAAGGACAGGAAGTAATTGTGAATGTTTAAATATAGCTGGGGCTATGCGATTGG  
1381 -----+-----+-----+-----+-----+ 1440  
TCATTGCTTCCTGTCTTCATTAACACTTACAAATTATATCGACCCCGATACGCTAAACC  
CTTAAGTTGTTAGCTTTGTTTTCTCTTGAGAAATAAAACTAAGGGGCCCTCCCTTTTC  
1441 -----+-----+-----+-----+-----+ 1500  
GAATTCAACAATCGAAACAAAAGGAGAACTCTTTATTTTTGATTCCCGGGAGGGAAAG  
AGAGCCTTATGGCGCAACATCTGTACTTTTTCATATGGTTAACTGTCCATTCCAGAAACG  
1501 -----+-----+-----+-----+-----+ 1560  
TCTCGGAATACCGCGTTGTAGACATGAAAAGTATACCAATTGACAGGTAAGGTCTTTGC  
TCTGTGAGCCTCTCATGTTGCAGCCACAACATGGACAGCCAGTCAAATGCCCCGCAAGT  
1561 -----+-----+-----+-----+-----+ 1620  
AGACACTCGGAGAGTACAACGTCGGTGTGTACCTGTGCGGTGAGTTTACGGGGCGTTCA  
CTTTCTCTGAGTGACTCCAGCAATTAGCCAAGGCTCCTGTACCCAGGCAGGACCTCTGCG  
1621 -----+-----+-----+-----+-----+ 1680  
GAAAGAGACTCACTGAGGTGTTAATCGGTTCCGAGGACATGGGTCCGTCTCTGGAGACGC  
CTCTGAGCTCCATTCTCCTTCAAGACCTCCCCAACTTCCAGGTTGAACTACAGCAGAAG  
1681 -----+-----+-----+-----+-----+ 1740  
GAGACTCGAGGTAAGAGGAAGTTCTGGAGGGGTGAAGGGTCCAACCTTGATGTCGTCTTC

Fig. 10 (cont'd II)

CCTTTAGAAAGGGCAGGAGGCCGGCTCTCGAGGTCCTCACCTGAAGTGAGCATGCCAGCC  
 1741 -----+-----+-----+-----+-----+ 1800  
 GGAAATCTTTCCCGTCTCCGGCCGAGAGCTCCAGGAGTGGACTTCACTCGTACGGTCCG  
 ACTGCAGGAACGCCCCGGGACAGGAATGCCCATTTGTGCAACGAACCCCTGACTCCTTCCT  
 1801 -----+-----+-----+-----+-----+ 1860  
 TGACGTCCTTGCGGGGCCCTGTCCTTACGGGTAAACACGTTGCTTGGGACTGAGGAAGGA  
 CACCCTGACTTCTCCCCCTCCCTACCCGCGCGCAGGCCAAGTTGCTGAATCAATGGAGCC  
 1861 -----+-----+-----+-----+-----+ 1920  
 GTGGGACTGAAGAGGGGGAGGGATGGGCGCGCTCCGGTTCAACGACTTAGTTACCTCGG  
 CTCCCCAACCCGGGCGTTCCCCAGCGAGGCTTCCTTCCCATCCTCCTGACCACCGGGGCT  
 1921 -----+-----+-----+-----+-----+ 1980  
 GAGGGGTTGGGCCCCGAAGGGTTCGCTCCGAAGGAAGGTAGGAGGACTGGTGGCCCCGA  
 TTTCGTGAGCTCGTCTCTGATCTCGCGCAAGAGTGACACACAGGTGTTCAAAGACGCTTC  
 1981 -----+-----+-----+-----+-----+ 2040  
 AAAGCACTCGAGCAGAGACTAGAGCGGTTCTCACTGTGTGTCCACAAGTTTCTGCGAAG  
 TGGGGAGTGAGGGAAGCGGTTTACGAGTGACTTGGCTGGAGCCTCAGGGGCGGGCACTGG  
 2041 -----+-----+-----+-----+-----+ 2100  
 ACCCCTCACTCCCTTCGCCAATGCTCACTGAACCGACCTCGGAGTCCCCGCCCGTGACC  
 CACGGAACACACCCTGAGGCCAGCCCTGGCTGCCCAGGCGGAGCTGCCTCTTCTCCCGCG  
 2101 -----+-----+-----+-----+-----+ 2160  
 GTGCCTTGTGTGGGACTCCGGTCGGGACCGACGGGTCCGCCTCGACGGAGAAGAGGGCGC  
 GGTTGGTGGACCCGCTCAGTACGGAGTTGGGGAAGCTCTTTCACCTTCGGAGGATTGCTCA  
 2161 -----+-----+-----+-----+-----+ 2220  
 CCAACCACCTGGGCGAGTCATGCCTCAACCCCTTCGAGAAAGTGAAGCCTCCTAACGAGT  
 ACAACCATGCTGGGCATCTGGACCCTCCTACCTCTGGTGATCCCTCTCCTGCCCGGGTGG  
 2221 -----+-----+-----+-----+-----+ 2280  
 TGTTGGTACGACCCGTAGACCTGGGAGGATGGAGACCACTAGGGAGAGGACGGGCCACCC  
 AGGCTTACCCCGTCTTAGTCCCAGGGGATAGGCAAAGTGGGGCGGGCGGGACGCGTGCG  
 2281 -----+-----+-----+-----+-----+ 2340  
 TCCGAATGGGGCAGAATCAGGGCCCTATCCGTTTCACCCCGCCCGCGCCCTGCGCACGC  
 GGATTGCGGGCGGAGCGGGCGCACGCGGGCACCTGGGAGCGGGCGGGCTGCTGCGGGAGGCG  
 2341 -----+-----+-----+-----+-----+ 2400  
 CCTAACGCCCGCGTCCGCCGCTGCGCCCGTGGACCCTCGCCGCCCGACGACGCCCTCCGC  
 TTGGAGACTGGCTCCCGGGGGCTGTTAGGACCTTCCTCAGGCCCGGGTGCTCAGAACGA  
 2401 -----+-----+-----+-----+-----+ 2460  
 AACCTCTGACCGAGGGCCCCGACAATCCTGGAAGGGAGTCCGGGGCCACGAGTCTTGCT  
 TGGAGGACTTGCTTTTCTTGGGCCTTGATGCGAAGTGCTGATCCCGCTGGGCAGGCGGGG  
 2461 -----+-----+-----+-----+-----+ 2520  
 ACCTCCTGAACGAAAAGAACC CGGAAC TACGCTTCACGACTAGGGCGACCCGTCCGCCCC  
 CAGCTCCGGCGCTCCTCGGAGACCACTGCGCTCCACGTTGAGGTGGGCGTGGGGGGCGGA  
 2521 -----+-----+-----+-----+-----+ 2580  
 GTCGAGGCCGCGAGGAGCCTCTGGTGACGCGAGGTGCAACTCCACCCGACCCCCCGCCT  
 CAGGAATTGAAGCGGAAGTCTGGGAAGCTTTAGGGTCGCTGGAGGGGGACCCCGGTTGGA  
 2581 -----+-----+-----+-----+-----+ 2640  
 GTCCTTAACCTTCGCCTTCAGACCCTTCGAAATCCAGCGACCTCCCCCTGGGGCCAACCT  
 <---- 4.p53-BE ---->  
 (intron)  
 GAGAGGAGCGGAACCTCCTGGACAAGCCCTGACAAGCCAAGCCAAAGGTCCGCTCCGGCGC  
 2641 -----+-----+-----+-----+-----+ 2700  
 CTCTCCTCGCCTTGAGGACCTGTTCCGGGACTGTTCCGGTTCCGTTTCCAGGCGAGGCGCGC

GGTGGGTGAGTGC GCGCCGCCCGCGGGGCGGGGAGAGACCTACAGCCTTCAGAACA  
2701 -----+-----+-----+-----+-----+-----+-----+ 2760  
CCCACCCACTCACGCGCGGGCGGGGCGCCCCGCCCTCTCTCGGATGTCGGAAGTCTTGT  
  
CATATTGCTCATTTTCTGGCAGTTCTCAGACGTAGGAAATAAGTCAGCACCGAAGCAGTG  
2761 -----+-----+-----+-----+-----+-----+-----+ 2820  
GTATAACGAGTAAAAGACCGTCAAGAGTCTGCATCCTTTATTTCAGTCGTGGCTTCGTCAC  
  
GTTAAGCCGGAGGGCTCGGAAGAACGGCACCTTTTCTTTCTCGAAAAAGTTATATGGGGG  
2821 -----+-----+-----+-----+-----+-----+-----+ 2880  
CAATTCGGCCTCCCGAGCCTTCTTGCCGTGGAAGAAAGAGCTTTTTCAATATACCCCC  
  
CTGAATGAGCTTCTGGAGGCTTGTTTACCGTTTTTTATTGTCACACAGAAAAGGAAACTG  
2881 -----+-----+-----+-----+-----+-----+-----+ 2940  
GACTTACTCGAAGACCTCCGAACAAATGGCAAAAAATAACAGTGTTCTTTTCCTTTGAC  
  
CCTTGTCCTCCCTTCGGGAATTCTCTCTTTAAGACTGTAAGTCGCTGCCTGAGTGGTTTTC  
2941 -----+-----+-----+-----+-----+-----+-----+ 3000  
GGAACAGAGGGGAAGGCCCTTAAGAGAGAAATTCTGACATTTCAGCGACGGACTCACCAAAG  
  
ATTTTGTTTTGTTTTCTGCCCTTCTCTTTCTTTCTTTTGCCCTTTCTTAGCTTGCACTCC  
3001 -----+-----+-----+-----+-----+-----+-----+ 3060  
TAAACAAAAACAAAAAGACGGGAAGAGAAAGAAGAAAACGGGAAGAATCGAACGTGAGG  
  
CATGGTGATTTCTGCTTGGTCTCCTGCTGGGGTTGGTGGTACTCGTTCCACCGCACAGA  
3061 -----+-----+-----+-----+-----+-----+-----+ 3120  
GTACCACTAAAGACGAACCAGAGGACGACCCCAACCACCATGAGCAAGGGTGGCGTGTCT  
  
ACCCGGCGCCTATTATTGGCCAAGAAACTTGAGCAGCCTGTTTTGAAAAGTCCCTCGCTC  
3121 -----+-----+-----+-----+-----+-----+-----+ 3180  
TGGGCGCGGATAATAACCGGTTCTTTGAACTCGTCGGACAAAACTTTTAGGGAGCGAG  
  
AGAAATGCCAGCTTGCAATGGCTAATCAAAG  
3181 -----+-----+-----+-----+-----+-----+-----+ 3240  
TCTTTACGGTTCGAACGTCTACCGATTAGTTTC

Fig 11

variations in the p53 binding region of figure 8

### 1. p1140 IMI

p1140                    GGACAAGCCCTGACAAGCCA  
p1140 IMI                GG**AAA**AAGCCCTGACAAGCCA  
                                  ↑

positions of the mutations (boldface and arrow): 2270 (C→A)

### 2. p1140 IMII

p1140                    GGACAAGCCCTGACAAGCCA  
p1140 IMII                GG**AAA**AAGCCCTG**AAA**AGCCA  
                                  ↑                                    ↑

positions of the mutations (boldface and arrow): 2270 (C→A)  
2280 (C→A)

### 3. p1140 IMIII

p1140                    GGACAAGCCCTGACAAGCCA  
p1140 IMIII                GG**AAAT**CCCTG**AAAT**CCA  
                                  ↑    ↑                                    ↑    ↑

positions of the mutations (boldface and arrow): 2270 (C→A)  
2273 (G→T)  
2280 (C→A)  
2283 (G→T)

GGACAAGCCCTGACAAGCCA

GCACAAGCCCTCACAGCCA

↑

2278 (C→A)

[illegible]

Fig. 12

variations in the p53 binding regions of figure 9

### 1. p1141 IMIII

p1141	GGACAAGCCCTGACAAGCCA
p1141 IMIII	GG <b>AAAT</b> CCCTG <b>AAAT</b> CCA
	↑  ↑          ↑  ↑

positions of the mutations (boldface and arrow): 2270

2273

2280

2283

### 2. p1141 1p53

p1141	AGAGATGCCCAAAGTGT
p1141 1p53	AGAGAT <b>T</b> CCCAA <b>AAT</b> GT
	↑          ↑

positions of the mutations (boldface and arrow): 50

57

### 3. p1141 2p53

p1141	AATGTTGCTTAAGCTTTT
p1141 2p53	AATGTT <b>T</b> CTTAAG <b>A</b> TTTT
	↑          ↑

positions of the mutations (boldface and arrow): 443

450

## 4. p1141 3p53

p1141           AAACTACCTAAGAGCTATCT  
 p1141 3p53     **ACA**ATACCTAAGAGCTATCT  
                   ↑ ↑

positions of the mutations (boldface and arrow): 1268           (A→C)  
   1270           (C→A)

## 5. p1141 ΔBgl

                                  <---- 1.p53-BE ---->  
 p1141           AATAACCTTT**AGAGATG**CCCCAACTGTTTTCCCCAGAACA  
 p1141ΔBgl     AATAACCTTT**A**-----**GATCT**CCCCAGAACA

## 6. p1141 ΔSpe

                                  <---- 2.p53-BE ---->  
 p1141           CATCTTTGCC**AA**TGTTGCTTAAGCTTTTTTGGCTACATTT  
 p1141ΔBgl     CATCTTTGCC**A**-----**CTAGT**GGCTACATTT

## 7. p1141 ΔMph

                                  <---- 3.p53-BE ---->  
 p1141           AATTCATGCT**AA**ACTACCTAAGAGCTATCTACCGTTCCAA  
 p1141ΔBgl     AATTCATGCT**ATGCA**-----**T**ACCGTTCCAA

Fig. 13

variations in the p53 binding region of figure 10

## 1. p1142 TAG

mutation of the positions: 2227 (A→T)  
2228 (T→A)

## 2. p1142 IMIII

p1142 GGACAAGCCCTGACAAGCCA  
p1142 IMIII GG**AAAT**CCCTGA**AAAT**CCA  
                  ↑   ↑           ↑   ↑

positions of the mutations (boldface and arrow): 2662 (C→A)  
2665 (G→T)  
2672 (C→A)  
2675 (G→T)

## 3. p1142 ΔBgl

<---- 1.p53-BE ---->  
p1142 AATAACCTTT**AGAGATGCCCAA**CTGTTTTCCCCAGAACA  
p1142ΔBgl AATAACCTTT**A**-----**GATCT**CCCCAGAACA

## 4. p1142 ΔSpe

<---- 2.p53-BE ---->  
p1142 CATCTTTGCC**AA**TGTTG**CTTAAG**CTTTTTGGCTACATTT  
p1142ΔBgl CATCTTTGCC**A**-----**CTAGT**GGCTACATTT



**5. p1142 ΔMph**

&lt;----- 3.p53-BE -----&gt;

p1142           AATTCATGCTAAACTACCTAAGAGCTATCTACCGTTCCAA  
p1142ΔBg1       AATTCATGCTATGCA-----TACCGTTCCAA

p1142 ΔBg1

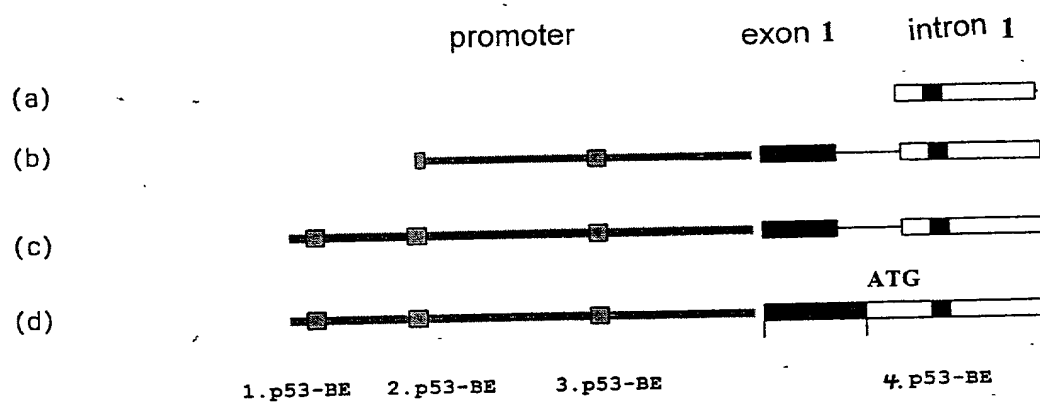


Fig. 14